Srivibhu Yerneni

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EDUCATION

Northeastern University, Boston, MA — *Expected Graduation Date:* ***May 2028***
Candidate for Bachelor of Science in Electrical and Computer Engineering — *GPA: 3.50*
Relevant Coursework: Quantum Engineering, Circuits and Signals, Electronics, Digital Design, Embedded Design
Activities: SEDS, Resident Student Association, Ultimate Frisbee, and Lunabotics

SKILLS

Software: KiCad, Java, Python, C++, Solidworks, Onshape, Matlab, Autocad, Swift, Arduino, Linux
Hardware: Soldering, Oscilloscope, Function Generator, PCB Design, 3D Printing, Raspberry Pi, Arduino

PROFESSIONAL EXPERIENCE

Bendable Electronics and Sustainable Technologies Lab, Northeastern University — ***Boston, Massachusetts***
Undergraduate Research Assistant — *Dec 2025 - Present*

- Conduct research on machine learning anddriven optimization of nanowire synthesis, modeling relationships between CVD growth parameters and device performance to reduce experimental trial space.
- Collaborate with PhD researchers to analyze synthesis and characterization data and develop predictive, data-driven models for faster optimization of flexible and nanoscale electronic devices.

Northeastern University — ***Boston, Massachusetts***
Teaching Assistant - EECE 2160 Embedded Design — *Dec 2025 - Present*

- Support 100+ students in FPGA and microcontroller-based system design as a teaching assistant, embedded programming, and hardware–software integration using Quartus Prime, Scopy, and MobaXTerm.
- Grade labs, homework assignments, and exams, ensuring consistent evaluation and providing technical feedback to reinforce core embedded systems concepts, and hosted office hours and lab sessions on a weekly basis.

AI Edge Institute at Ohio State University — ***Columbus, Ohio***
Student Researcher — *May 2025 - Aug 2025*

- Developed and evaluated supervised machine learning models on large-scale real-world datasets (>100k samples)
- Improved baseline accuracy by 22% through feature engineering, model selection, and hyperparameter tuning.
- Communicated results in a 10-page technical research paper and final capstone presentation.

PROJECTS

I²C Power & Communication Hub — ***Boston, Massachusetts***
Electrical Engineer at SEDS — *Sep 2025 - Oct 2025*

- Designed a modular I²C communication and power distribution hub using a Raspberry Pi and TCA9548A multiplexer to support multiple downstream boards with address isolation and improved bus reliability.
- Developed the full schematic and PCB in KiCad, implementing configurable pull-ups, reset handling, and jumper-selectable 3.3 V/5 V power distribution for mixed-voltage peripherals.

ROS2 Architecture — ***Boston, Massachusetts***
Software Engineer at SEDS — *Jan 2025 - Jul 2025*

- Designed a modular ROS2 architecture for Northeastern's SEDS Lunabotics rover, implementing sensing, navigation, and control nodes with standardized interfaces allowing for a fully autonomous rover.
- Integrated perception, path planning, and actuator control into a unified system that contributed to the rover placing 3rd nationally in the NASA Lunabotics style competition at the University of Iowa.

LEADERSHIP EXPERIENCE

Resident Student Association — ***Boston, Massachusetts***
Assistant Vice President of Operations — *Sep 2025 - Present*

- Manage funding and budgeting for all Hall Councils and ResLife programming at Northeastern, overseeing allocation, financial tracking, and operational support for residential communities across the Boston campus.
- Plan and coordinate large-scale events by securing contracts and partnerships with Boston organizations to enhance student engagement and the campus community experience for residential students.

Trade Safe — ***Dallas, Texas***
Co-founder/Developer — *Jul 2025 - August 2025*

- Designed and implemented a mobile application to assist investors, integrating AI-driven stock recommendation algorithms, while ensuring an accessible interface usable for users with varying financial literacy.
- Developed and trained a custom machine learning model that outperformed baseline AI models by 18% in prediction accuracy, validated through backtesting on 50,000 + historical stock records dating back over a decade.